QC ABSTRACT
AND
QC REPORT

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CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
7	Drain Bottom Slab Concrete M20	Equivalent Cube Compressive Strength	One Test		1	1
8	Drain SideWall Concrete M20	Compressive Strength(7days and 28days)	5 set /50-100 cum	55.8	10	10
		Compressive Strength(7days and 28days)	5 set /50-100 cum	100.44	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-03-06-21** **Date: 02-01-20**
Project Name	:	Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
Agency	:	M/s Executive Engineer, K.R.I.D.L
Customer's Reference	:	BBMP/EE/BTP/WO/138/19-20
Date of Receipt	:	30-12-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-12-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.56	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.6mm	Not more than 10 mm

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-03-06-21** **Date: 28-01-20**
Project Name	:	Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
Agency	:	M/s Executive Engineer, K.R.I.D.L
Customer's Reference	:	BBMP/EE/BTP/WO/138/19-20
Date of Receipt	:	30-12-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	31-12-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

AE(WZ)

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-03-06-21**	**Date: 02-01-20**
Project Name	:	Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.	
Agency	:	M/s Executive Engineer, K.R.I.D.L	
Customer's Reference	:	BBMP/EE/BTP/WO/138/19-20	
Date of Receipt	:	30-12-19	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	30-12-19	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	246	246	1.6	98.4	90-100
3	20 mm	7879	8125	54.2	45.8	30-70
4	10 mm	3898	12023	80.2	19.8	10-35
5	4.75 mm	2586	14609	97.4	2.6	0-5
6	Pan	391	15000	100.0	0	---

Ashwini. N.D
AE(Lab)

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-03-06-21** **Date: 02-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-03-06-21** **Date: 02-01-20**
Project Name	:	Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
Agency	:	M/s Executive Engineer, K.R.I.D.L
Customer Reference	:	BBMP/EE/BTP/WO/138/19-20
Date of Receipt	:	30-12-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-12-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-03-06-21** **Date: 02-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.35	_
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-03-06-21** **Date: 02-01-20**

Project Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.

Agency : M/s Executive Engineer, K.R.I.D.L

Customer's Reference : BBMP/EE/BTP/WO/138/19-20

Date of Receipt : 30-12-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-12-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-03-06-21** **Date: 02-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST RESULTS OF STEEL

ID	:	CP-2020-03-06-21
ect Name	:	Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
cy	:	M/s Executive Engineer, K.R.I.D.L
omer's Reference	:	BBMP/EE/BTP/WO/138/19-20
of Receipt	:	01-01-20
le Type	:	Sunvik
ence to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
of test:	:	01-01-20

Date: 02-01-20

	Identification of sample	Grade of the sample	Diameter of the steel bar (mm)	Weight of the sample (kg/m)	Yield stress (N/mm2)	Tensile strength (N/mm2)	Elongation (%)	Bend test	Rebend test
	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

)	:	CP-2020-03-06-21
t Name	:	Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
y	:	M/s Executive Engineer, K.R.I.D.L
ner's Reference	:	BBMP/EE/BTP/WO/138/19-20
f Receipt	:	08-02-20
e Type /Size	:	Precast Cover Slab
ce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
f test	:	08/02/2020

Date: 12-02-20

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-21 **Date: 23/01/2020**

Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
: M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/138/19-20
Receipt : 18-01-20
er ID : Drain Bottom Slab Concrete
Type /Size : 150X150X150 mm
grade/Age : M20 / 7 Days Compressive Strength
nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test : 23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.01 X 150.11 X 151.39	22669	8.803	423.4	18.7	18.6
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.80 X 150.22 X 150.95	22653	8.061	427.2	18.9	
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.71 X 149.22 X 150.98	22489	8.147	412.7	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/02/2020

: CP-2020-03-06-21
Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
: M/s Executive Engineer, K.R.I.D.L
ner's Reference : BBMP/EE/BTP/WO/138/19-20
f Receipt : 18-01-20
ner ID : Drain Bottom Slab Concrete
e Type /Size : 150X150X150 mm
e grade/Age : M20 / 28 Days Compressive Strength
nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test : 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.51 X 150.32 X 150.71	22774	8.633	543.0	23.8	23.2
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.45 X 151.69 X 149.34	22974	8.144	512.6	22.3	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.10 X 151.60 X 149.91	22907	8.451	535.2	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-21 **Date: 23/01/2020**

Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
: M/s Executive Engineer, K.R.I.D.L

ıer's Reference : BBMP/EE/BTP/WO/138/19-20
Receipt : 18-01-20
ıer ID : Drain Bottom Slab Concrete
Type /Size : 150X150X150 mm
grade/Age : M20 / 7 Days Compressive Strength
nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test : 23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.76 X 150.12 X 150.21	22632	8.803	423.6	18.7	18.5
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.01 X 150.28 X 150.40	22695	8.061	420.6	18.5	
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.62 X 149.24 X 149.58	22477	8.147	408.6	18.2	

Ashok G.N.D
AE(Rly)

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-21 **Date: 13/02/2020**

Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
: M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/138/19-20

Receipt : 18-01-20

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ace to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.15 X 150.28 X 149.81	22564	8.633	526.9	23.3	22.9
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	149.38 X 151.62 X 150.21	22649	8.144	501.4	22.1	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.76 X 149.08 X 150.12	22475	8.451	522.3	23.2	

A.E(L-II)

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/01/2020

: CP-2020-03-06-21

Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/138/19-20

Receipt : 18-01-20

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.89 X 150.08 X 151.01	22495	8.803	411.3	18.3	18.5
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.64 X 150.60 X 150.28	22837	8.061	421.9	18.5	
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.58 X 150.43 X 149.90	22501	8.147	421.2	18.7	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-21 Date: 13/02/2020

Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

ner's Reference : BBMP/EE/BTP/WO/138/19-20

f Receipt : 18-01-20

mer ID : Drain Bottom Slab Concrete

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	149.66 X 149.01 X 149.37	22302	8.633	532.2	23.9	23.3
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.79 X 151.94 X 149.50	22911	8.144	522.5	22.8	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.71 X 150.41 X 149.13	22818	8.451	529.7	23.2	

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: M/s Executive Engineer, K.R.I.D.L

ner's Reference : BBMP/EE/BTP/WO/138/19-20

f Receipt : 18-01-20

ner ID : Drain Bottom Slab Concrete

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.71 X 151.46 X 151.19	22826	8.633	540.5	23.7	23.0
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.12 X 150.96 X 150.24	22814	8.144	505.8	22.2	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.81 X 150.86 X 149.92	22901	8.451	531.0	23.2	

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er's Reference : BBMP/EE/BTP/WO/138/19-20
Receipt : 18-01-20
ner ID : Drain Bottom Slab Concrete
Type /Size : 150X150X150 mm
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nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test : 23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.59 X 149.04 X 151.19	22295	8.883	404.7	18.2	18.4
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.25 X 150.03 X 149.25	22692	8.061	418.5	18.4	
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.31 X 151.16 X 150.63	22872	8.147	425.3	18.6	

AE(W.S)

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Quality Manager

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ner ID : Drain Bottom Slab Concrete

e Type /Size : 150X150X150 mm

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f test : 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.07 X 151.24 X 150.46	22696	8.633	523.2	23.1	23.3
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.87 X 151.45 X 151.93	22999	8.144	528.3	23.0	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	149.10 X 150.28 X 151.97	22407	8.451	536.6	23.9	

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Receipt : 18-01-20

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.18 X 150.35 X 151.27	22429	8.803	420.3	18.7	18.5
ain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.32 X 151.79 X 149.11	22666	8.061	413.5	18.2	
ain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.87 X 151.96 X 151.89	23078	8.147	427.1	18.5	

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Authorized Signatory
Quality Manager

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t Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura. Date: 13/02/2020

ty : M/s Executive Engineer, K.R.I.D.L

mer's Reference : BBMP/EE/BTP/WO/138/19-20

f Receipt : 18-01-20

mer ID : Drain Bottom Slab Concrete

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.47 X 150.90 X 151.05	22705	8.633	541.9	23.9	23.4
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.66 X 151.22 X 149.34	22783	8.144	516.1	22.7	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.46 X 151.50 X 150.03	22946	8.451	545.0	23.8	

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Quality Manager

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: CP-2020-03-06-21
: Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
ame : M/s Executive Engineer, K.R.I.D.L
: BBMP/EE/BTP/WO/138/19-20
r's Reference : 18-01-20
Receipt : Drain Bottom Slab Concrete
er ID : 150X150X150 mm
Type /Size : M20 / 7 Days Compressive Strength
grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ce to BIS codes : 23/01/2020
test

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.98 X 151.44 X 151.86	23017	8.803	433.1	18.8	18.8
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.86 X 149.07 X 151.77	22489	8.061	422.1	18.8	
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.57 X 151.70 X 151.02	22690	8.147	426.5	18.8	

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Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

Date: 24/01/2020

er's Reference : BBMP/EE/BTP/WO/138/19-20

f Receipt : 19-01-20

mer ID : Drain Sidewall Concrete

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	150.40 X 151.56 X 149.62	22795	8.803	422.5	18.5	18.5
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	149.46 X 149.81 X 149.43	22390	8.061	414.0	18.5	
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	149.87 X 149.14 X 151.83	22351	8.147	410.1	18.3	

AE(W-I)

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Quality Manager

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...by : M/s Executive Engineer, K.R.I.D.L

Date: 14/02/2020

...mer's Reference : BBMP/EE/BTP/WO/138/19-20

...f Receipt : 19-01-20

...mer ID : Drain Sidewall Concrete

...e Type /Size : 150X150X150 mm

...e grade/Age : M20 / 28 Days Compressive Strength

...nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

...f test : 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	149.15 X 151.15 X 150.06	22544	8.633	538.8	23.9	23.2
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	149.81 X 149.35 X 149.75	22374	8.144	495.5	22.1	
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.52 X 149.53 X 150.74	22656	8.451	533.6	23.6	

A Hrly. N.D
AE (VSI)

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Receipt : 19-01-20
er ID : Drain Sidewall Concrete
Type /Size : 150X150X150 mm
grade/Age : M20 / 7 Days Compressive Strength
ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test : 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	151.48 X 149.55 X 149.79	22654	8.803	417.1	18.4	18.5
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	149.01 X 151.95 X 151.77	22642	8.061	412.6	18.2	
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	149.84 X 149.21 X 150.23	22357	8.147	424.5	19.0	

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: Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.

Name : M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/138/19-20

ner's Reference : 19-01-20

Receipt : Drain Sidewall Concrete

ner ID : 150X150X150 mm

Type /Size : M20 / 28 Days Compressive Strength

grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

nce to BIS codes

Test : 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	150.90 X 149.02 X 150.55	22487	8.633	539.5	24.0	23.4
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.69 X 151.61 X 149.65	22998	8.144	518.4	22.5	
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.76 X 150.75 X 149.76	22877	8.451	540.7	23.6	

A.E(Tech)

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est : 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	150.76 X 151.21 X 151.57	22796	8.803	411.9	18.1	18.5
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	151.50 X 149.09 X 149.14	22587	8.061	427.2	18.9	
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	149.88 X 149.27 X 149.61	22372	8.147	411.2	18.4	

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: M/s Executive Engineer, K.R.I.D.L

s Reference : BBMP/EE/BTP/WO/138/19-20

ceipt : 19-01-20

ID : Drain Sidewall Concrete

pe /Size : 150X150X150 mm

ade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

t : 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.58 X 149.59 X 149.73	22674	8.633	540.5	23.8	23.5
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	149.61 X 151.10 X 151.60	22606	8.144	518.0	22.9	
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.44 X 151.55 X 149.63	22951	8.451	545.9	23.8	

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R KARTHIKRECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

)	:	CP-2020-03-06-21 **Date: 24/01/2020**
t Name	:	Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
y	:	M/s Executive Engineer, K.R.I.D.L
ner's Reference	:	BBMP/EE/BTP/WO/138/19-20
f Receipt	:	19-01-20
ner ID	:	Drain Sidewall Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	151.54 X 151.64 X 149.20	22980	8.803	432.7	18.8	18.6
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	150.01 X 150.26 X 150.25	22540	8.061	411.6	18.3	
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	150.55 X 151.06 X 149.81	22742	8.147	426.5	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/02/2020

: CP-2020-03-06-21

Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/138/19-20

Receipt : 19-01-20

er ID : Drain Sidewall Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	149.94 X 149.64 X 149.46	22437	8.633	532.2	23.7	23.3
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.49 X 150.15 X 150.23	22746	8.144	508.6	22.4	
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.00 X 149.83 X 149.85	22624	8.451	537.8	23.8	

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: M/s Executive Engineer, K.R.I.D.L

r's Reference : BBMP/EE/BTP/WO/138/19-20

eceipt : 19-01-20

r ID : Drain Sidewall Concrete

ype /Size : 150X150X150 mm

rade/Age : M20 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	151.92 X 151.47 X 150.70	23012	8.803	432.8	18.8	18.6
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	151.73 X 149.44 X 150.00	22676	8.061	425.3	18.8	
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	150.64 X 150.23 X 150.05	22630	8.147	411.6	18.2	

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Name : Improvements to Roads and Drains of Veerannapalya in Ward No.07 Byataranapura.
: M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/138/19-20

Receipt : 19-01-20

er ID : Drain Sidewall Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.94 X 150.59 X 149.88	22880	8.633	546.3	23.9	23.1
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	149.42 X 149.21 X 151.24	22294	8.144	490.5	22.0	
Drain Sidewall Concrete	M20	17/01/2020	14/02/2020	151.37 X 150.78 X 150.97	22823	8.451	536.9	23.5	

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: CP-2020-03-06-21 **Date: 24/01/2020**

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: M/s Executive Engineer, K.R.I.D.L

Reference : BBMP/EE/BTP/WO/138/19-20

ceipt : 19-01-20

ID : Drain Sidewall Concrete

pe /Size : 150X150X150 mm

ade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	149.08 X 149.06 X 151.74	22222	8.803	412.5	18.6	18.4
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	151.67 X 151.40 X 150.65	22963	8.061	427.7	18.6	
Drain Sidewall Concrete	M20	17/01/2020	24/01/2020	150.02 X 151.89 X 151.54	22786	8.147	411.3	18.1	

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Date: 14/02/2020

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: M/s Executive Engineer, K.R.I.D.L

teference : BBMP/EE/BTP/WO/138/19-20

ipt : 19-01-20

: Drain Sidewall Concrete

e /Size : 150X150X150 mm

le/Age : M20 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 14/02/2020

ntification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ain Sidewall Concrete	M20	17/01/2020	14/02/2020	150.72 X 151.79 X 149.91	22877	8.633	545.4	23.8	23.3
ain Sidewall Concrete	M20	17/01/2020	14/02/2020	150.84 X 150.29 X 150.90	22670	8.144	508.4	22.4	
ain Sidewall Concrete	M20	17/01/2020	14/02/2020	150.16 X 151.38 X 150.80	22730	8.451	536.7	23.6	

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